

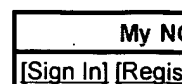
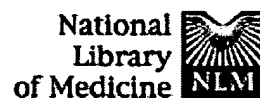
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DATE: Tuesday, August 23, 2005

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| <input type="checkbox"/> | L16 | L15 and heat | 59 |
| <input type="checkbox"/> | L15 | L14 and allergen | 238 |
| <input type="checkbox"/> | L14 | 424/275.1.ccls. | 311 |
| <input type="checkbox"/> | L13 | L12 and allergen | 15 |
| <input type="checkbox"/> | L12 | 424/257.1.ccls. | 168 |
| <input type="checkbox"/> | L11 | L10 and allergy | 15 |
| <input type="checkbox"/> | L10 | L4 and mucosal | 49 |
| <input type="checkbox"/> | L9 | (Caplan)adj(michael) | 32 |
| <input type="checkbox"/> | L8 | L7 and cytoplasm | 12 |
| <input type="checkbox"/> | L7 | L4 and delivery | 63 |
| <input type="checkbox"/> | L6 | L4 and allergy | 21 |
| <input type="checkbox"/> | L5 | L4 and allergen | 6 |
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| <input type="checkbox"/> | L3 | (dead)same(E)adj(col)same(allergen) | 2 |
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| <input type="checkbox"/> | L1 | (heat)adj(killed)same(E)adj(col)same(vaccine) | 24 |

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1: FEMS Microbiol Immunol. 1988 Dec;1(3):117-25.

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Non-replicating oral whole cell vaccine protective against enterotoxigenic Escherichia coli (ETEC) diarrhea: stimulation of anti-CFA (CFA/I) and anti-enterotoxin (anti-LT) intestinal IgA and protection against challenge with ETEC belonging to heterologous serotypes.

Evans DG, Evans DJ Jr, Opekun AR, Graham DY.

Mucosal Immunity Laboratory, Veterans Administration Medical Center, Houston, Texas 77211.

An oral killed (non-replicating) whole-cell anti-ETEC vaccine was prepared by treating enterotoxigenic Escherichia coli strain H-10407 (ST + LT +; 078: H11: CFA/I) with a 100%-lethal amount of colicin E2. Colicin E2 is a potent DNA endonuclease which enters the target bacterial cells without disrupting cellular integrity. Thus the vaccine consists of intact cells lacking chromosomal and plasmid DNA but possessing a normal complement of antigens, including CFA/I and enterotoxin(s), unaltered by chemical- or heat-treatment. Young healthy volunteers were administered two oral doses, one month apart, of approximately 3×10^{10} vaccine cells. Of 22 vaccinees, 17 (77.3%) showed an intestinal anti-CFA/I IgA response and 19 (86.4%) showed an increase in intestinal anti-LT IgA. Twenty of 22 (90.9%) vaccinees had antibody responses to either CFA/I, LT, or both antigens, demonstrating that colicin E2-treated CFA-positive E. coli cells are an efficient vehicle in terms of delivery of antigens to the gut immune system. We previously demonstrated protection of vaccinees against challenge with the living homologous ETEC (strain H-10407). In this study, two groups of 8 vaccinees were challenged with a diarrheagenic dose of virulent ST + LT + ETEC of heterologous serotype; one group was challenged with a CFA/I-positive 063: H- strain and the other group was challenged with a CFA/II-positive 06: H16 strain. Approximately 75% efficacy was achieved in both challenge groups. None of the 16 vaccinees who had responded to both CFA/I and LT became ill upon challenge while both of the vaccinees who had not responded to either antigen did. (ABSTRACT TRUNCATED AT 250 WORDS)